

## **Personal**

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## **Education**

Ph. D., Geoscience (Atmospheric Science), Florida International University, current student  
M.S., Atmospheric Science, University of North Dakota, August 2008.  
B.S., Meteorology, Texas A&M University, May 2006.

## **Employment**

Senior Research Associate, University of Miami/Cooperative Institute for Marine and Atmospheric Studies (AOML), Miami, FL, January 2013 –present.  
Research Associate, University of Miami/Cooperative Institute for Marine and Atmospheric Studies (AOML), Miami, FL, January 2009 –2013.  
Operational Meteorologist, MarineWatch Division, ImpactWeather, Inc., Houston, TX,  
August 2008 – January 2009.  
Graduate Research Assistant/Graduate Teaching Assistant, University of North Dakota,  
Grand Forks, ND, August 2006 – August 2008.  
Research Assistant/Weather Camp Director, Weather Research Center, Houston, TX,  
June – August 2006.  
SMART Radar Operator, Texas A&M University, Texas Air Quality Study II, College Station, TX,  
Fort Worth, TX, July – September 2005.

## **Publications**

**Klotz, B. W.** and P. Kucera, “Observations of Coastally Transitioning West African Mesoscale Convective Systems during NAMMA,” *International Journal of Geophysics*, vol. 2012, Article ID 438706, 25 pages, 2012.  
doi:10.1155/2012/438706.

Uhlhorn, E. W., **B. W. Klotz**, T. Vukicevic, P. D. Reasor, and R. F. Rogers, “Observed Hurricane Wind Speed Asymmetries and Relationships to Motion and Environmental Shear”, *Monthly Weather Review*, 2013, early-release, <http://dx.doi.org/10.1175/MWR-D-13-00249.1>

Vukicevic, T., E. Uhlhorn, P. Reasor, and **B. Klotz**, “A novel multi-scale intensity metric for evaluation of tropical cyclone intensity forecasts”, *Journal of the Atmospheric Sciences*, 2013, early-release, <http://dx.doi.org/10.1175/JAS-D-13-0153.1>

Rogers, R., S. Aberson, A. Aksoy, B. Annane, M. Black, J. Cione, N. Dorst, J. Dunion, J. Gamache, S. Goldenberg, S. Gopalakrishnan, J. Kaplan, **B. Klotz**, S. Lorsolo, F. Marks, S. Murillo, M. Powell, P. Reasor, K. Sellwood, E. Uhlhorn, T. Vukicevic, K. Yeh, J. Zhang, and X. Zhang, “NOAA’s Hurricane Intensity Forecasting Experiment (IFEX): A Progress Report”, *Bulletin of the American Meteorological Society*, 2013, **94**, 859–882. doi: <http://dx.doi.org/10.1175/BAMS-D-12-00089.1>

Smith, J. W., A. E. Reynolds, A. S. Pratt, S. Salack, **B. Klotz**, M. S. DeLonge, S. Chan, T. L. Battle, D. Grant, A. Diop, T. Fall, A. Gaye, and D. Robertson, “Observations of an 11 September Sahelian Squall Line and Saharan Air Layer Outbreak during NAMMA-06”, *International Journal of Geophysics*, vol 2012, Article ID 153256, 14 pages, 2012. doi:10.1155/2012/153256.

### **Publications in Review**

**Klotz, B. W.** and E. W. Uhlhorn, “Improved Stepped Frequency Microwave Radiometer Surface Winds in Heavy Precipitation”, *Journal of Atmospheric and Oceanic Technology*, 2014, in review.

Walsh, E. J., I. PopStefanija, S. Matrosov, J. Zhang, E. Uhlhorn, and **B. Klotz**, “Airborne Rain Rate Measurement with a Wide Swath Radar Altimeter”, *Journal of Atmospheric and Oceanic Technology*, 2013, in review.

### **Recent Presentations**

**Klotz, B. W.** and E. W. Uhlhorn. “Improving SFMR Surface Wind Measurements in Heavy Rain Conditions.” *30<sup>th</sup> Conference on Hurricanes and Tropical Meteorology*, 15 – 20 April, 2012. American Meteorological Society, Ponte Vedra Beach, FL.

Uhlhorn, E., **B. Klotz**, J. Zhang, and M. Fischer. “Extreme Surface Wind Observations in Some Recent Category-5 Tropical Cyclones.” *30<sup>th</sup> Conference on Hurricanes and Tropical Meteorology*, 15 – 20 April, 2012. American Meteorological Society, Ponte Vedra Beach, FL.

**Klotz, B. W.** and E. W. Uhlhorn, Improved SFMR Surface Wind Measurements in Intense Rain Conditions: A JHT Project, 6 March, 2012. Interdepartmental Hurricane Conference, Charleston, SC

**Klotz, B. W.** An overview of NOAA's SFMR: Data and Applications. Hurricane Forecast Improvement Program (HFIP) Observations Workshop, 11 – 12 May, 2011. NOAA/AOML, Miami, FL

**Klotz, B. W.** and E. W. Uhlhorn. Stepped Frequency Microwave Radiometer algorithm improvements addressing rain contamination of surface wind speed measurements in tropical cyclones. 29<sup>th</sup> Conference on Hurricanes and Tropical Meteorology, 10 – 14 May, 2010. American Meteorological Society, Tucson, AZ.

Uhlhorn, E. W., R. A. Black, and **B. W. Klotz**. Improved SFMR surface wind measurements in intense rain conditions. 29<sup>th</sup> Conference on Hurricanes and Tropical Meteorology, Poster Session, Tropical Cyclone Observations, 10 – 14 May, 2010. American Meteorological Society, Tucson, AZ.

### **Field Research Experience**

NOAA Intensity Forecasting Experiment (IFEX), 2009 – present.

Genesis and Rapid Intensification Processes (GRIP), 2010

SOAP Project, Texas A&M University, group leader, 2005 – 2006.

Texas Air Quality Study II, 2005.

### **Professional**

Member, American Meteorological Society, 2008 – present.

Student Member, American Geophysical Union, 2007-2008.

Student Member, American Meteorological Society, 2004 – 2008.